

What is claimed is:

1. A synchronicity detection apparatus for detecting a timing of a spread code whose prescribed having a certain length, which is included in a reception signal, comprising:

correlation coefficient generation means for dividing said spread code advancing a phase of said spread code every a certain period, to generate a replica code of said spread code; and,

a matched filter which performs detection of correlation values of said replica code generated by said correlation coefficient generation means and said reception signal every said certain period.

2. The synchronicity detection apparatus according to Claim 1, further comprising:

a memory which cyclically adds said correlation values detected by said matched filter every said certain period to store said added correlation values therein; and,

means for detecting correlation energy from memory data in said memory means.

3. The synchronicity detection apparatus according to Claim 1, further comprising:

adding means which delays an output of the said matched filter by said certain period to generate a delayed signal, and adds said delayed signal and the said output of said matched filter, and

means for detecting a correlation value from the signal added by said adding means.

4. The synchronicity detection apparatus according to Claim 1, wherein said correlation generation means includes

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a pseudo-random sequence generation means which generates a pseudo-random sequence from an initial value after to supply said pseudo-random sequence generated as said the replica code.

5. The synchronicity detection apparatus according to claim 1, wherein said correlation coefficient generation means comprises: a register which generates a certain pseudo-random sequence; operation means which phase shifts a phase of said pseudo-random sequence generated by said register, and means for supplying said phase-shifted pseudo-random sequence outputted by said operation means and said pseudo-random sequence outputted by said aforementioned register as said replica code.

6. The synchronicity detection apparatus according to claim 1, wherein said correlation coefficient generation means comprises spread code generation means for generating one unit of a second spread code from one unit of a first inputted spread code and generates one unit of a next spread code using one unit of said second spread code.

7. The synchronicity detection apparatus according to claim 6 wherein one unit of said spread code is each generated by repeating ratch operations each time an operation clock of said correlation coefficient generation means is supplied predetermined number of times.